

Small and Large FATWHEELS® Assembly Instructions

Thank you for purchasing FATWHEELS®. Please read these instructions thoroughly before you decide whether you should install them yourself, or get help from a competent bicycle mechanic.

The first step to installing your new set of FATWHEELS® is to understand whether or not you will need to use Axle Extenders. Axle Extenders are provided in every kit but are **NOT** required on many bikes. Axle Extenders are **ONLY** to be used if the bike does not have enough thread on the rear axle or is equipped with a derailleur (gear-changer). If your bike does not require Axle Extender(s), save them for possible use on a future bike as the rider grows.

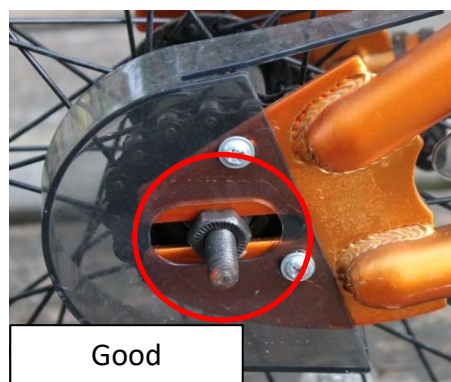
Axle Extenders are only to be used if needed!



Too Short



Too Short



Good

With the original axle nut in place, check both sides of the bike's rear axle to be sure the thread sticks out past the mounting nut at least $\frac{3}{16}$ " (roughly the thickness of three 0.25¢ coins).

1. Remove one rear axle nut from bicycle (Figure 1). If you have determined that you require Axle Extender(s) **Proceed to Step 2**. Otherwise, slide training wheel bracket onto axle (Figure 1). Replace axle nut and tighten securely (25 ft-lbs) with (usually 15mm) box end wrench (Figure 3). Repeat for opposite side, being careful to maintain proper chain tension and centering of rear wheel in frame. **Proceed to Step 5**.



Note: While tightening nut, bias the fork down in the front so the inside of the plastic fork cover comes in contact with the top of the chain stay (lower frame tube). See Page 3- Appendix "A".



Axle Extender Installation Procedures

Determining The Thread Pitch

Each Axle Extender is marked either 24 or 26. These markings describe the thread pitch or threads per inch (TPI) of the extender. Not all bikes have the same size thread pitch or diameter axle. As a general rule of thumb single speed bikes, (pedal backwards to brake), have 3/8" X 24 TPI axles and bikes that have a derailleur, (multi-speed), generally have 3/8" X 26 TPI rear axles.

9/16" and 10mmX1.0mm axles are NOT compatible with FATWHEELS® Axle Extenders!

There are bike models with 9/16" or 10mmX1.0mm rear axles. These bikes *can* use FATWHEELS® but *only* when Axle Extenders are not required. If the bike is equipped with a long enough 9/16" rear axle you will be required to drill the FATWHEELS® mounting bracket hole to 10/32" in order to mount the bracket to the frame. Bikes equipped with long enough 10mmX1.0mm axles will not require drilling in order to be installed.

2. With the axle nut removed and the thread pitch identified, first install the flat washer supplied in the axle extender kit (Figure 4,5), then install and tighten axle extender to 25 ft.-lbs. The axle extender should tighten flat against the washer. If the axle is too long, you will need to cut the axle so that the extender can tighten securely against the frame and derailleur. (Figure 6).



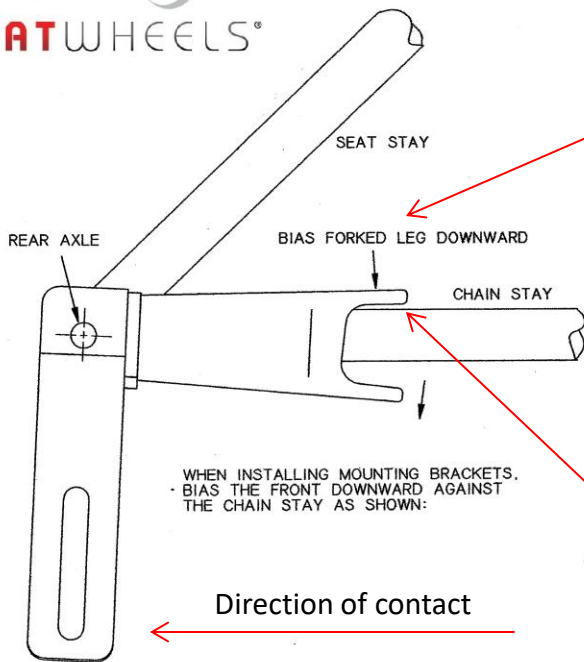
When an Axle Extender is used, it moves the bracket outward and away from the frame by 1" disengaging the fork from the frame. The bracket fork will need to be bent in order to come in contact with the chain stay (lower frame tube).



3. With the Axle Extender installed, slide the FATWHEELS® bracket over the thread to gauge how far you will need to bend the fork in order to come in contact with the chain stay (Figures 7&8). See page 3- Appendix "B"
4. Using the original axle nut, fasten the frame bracket to the Axle Extender and torque to 25 ft.-lbs. (Figure 8)



Biasing and Bending the Fork

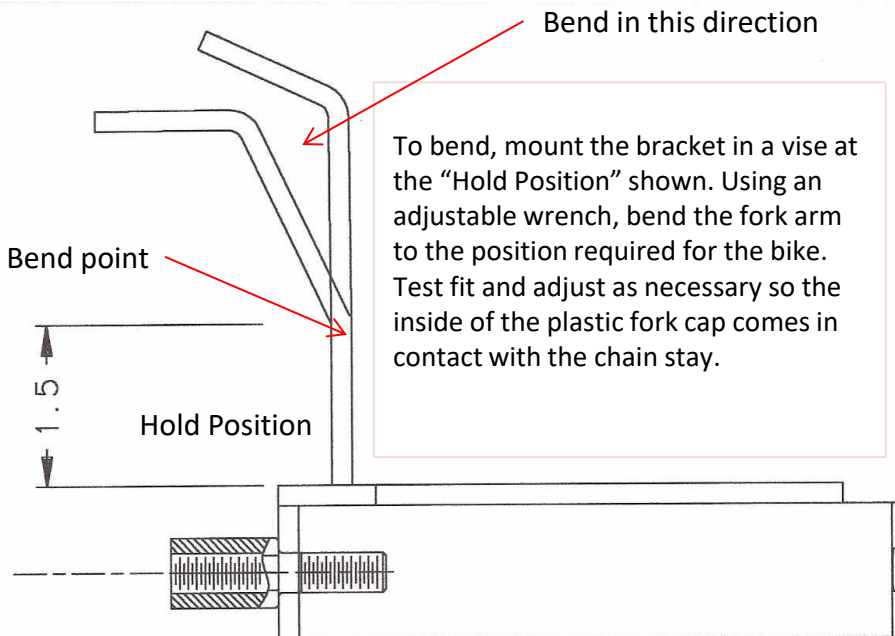


Biasing the fork downwards stops the rotation of the bracket around the axle. This is important when the tire comes into contact with obstacles while riding in a forward motion.

Periodic inspection of the torque (tightness) of the Axle Extender(s) and correct positioning of brackets is recommended.

Contact location of forks

Appendix "A"



Appendix "B"

Note: FATWHEELS® Axle Extenders are specifically designed to stop rotation of the FATWHEELS® brackets when installed as instructed.

Caution: FATWHEELS® products are not to be used with any other training wheel applications. Use of FATWHEELS® Axle Extenders on brands other than FATWHEELS® may cause harm to the rider.



5. With brackets mounted and torqued to spec. locate a wheel assembly and remove the inner flanged nut and first serrated washer. From the outside of the bracket slide the wheel stud through the bracket and install the serrated washer with the serrations towards the bracket. Install the inner flanged nut and finger tighten to a loose fit so the wheel will move up and down in the slot. Repeat for other side (figure 10).
6. Place the bike vertically on a level surface and adjust the left and right wheel assemblies so the wheels are either $\frac{1}{2}$ " off the ground or in contact with the ground depending on the riders sense of balance. Using a 15 and 17mm wrench tighten the wheel mounting nuts to 25 ft.-lbs. (Figure 9,10). Repeat for other side. Review the installation and be sure to check that all the fasteners are torqued to specification.



7. Riders should be supervised closely until they are confident with their new FATWHEELS®. As the rider learns to keep their balance, the wheels can be adjusted upward and then removed if they no longer require them.



FATWHEELS® "Now Everybody Can Ride!"